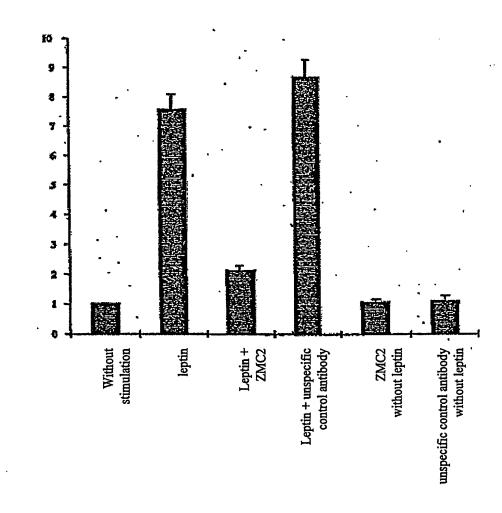
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Figure 1

A) XHNPIPMPPAAAGLLLLAAQPAMAELVMTQSPKFMSTSIGDRVNITCKAT QNVRTAVTWYQQKPGQSPQALIFLASNRHTGVPARFTGSGSGTDFTLTIN NVKSEDLADYFCLQHWNYPLTFGSGTKLEIKRADAAPTVSIFPPSSEQLT 5 SGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMS STLTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRGEC\*\*SRVKRXQSXG GPGTPIRPIGXPYYNSLGGGFQ B) 10 DNA: NANGTCATAATCCAATACCTATGCCTACGGCAGCCGCTGGATTGTTATTAC +3: X H N P I P M P T A A A G L L L L pComb3 vector SacI  $V_L(\kappa)$  primer DNA: TCGCTGCCCAACCAGCCATGGCCGAGCTCGTGATGACCCAGTCTCCAAAAT 15 +3: A A Q P A M A E L V M T DNA: TCATGTCCACATCAATAGGAGACAGGGTCAATATCACCTGCAAGGCCACTC M S T S I G D R V N I T C K A T Q 20 DNA: AGAATGTTCGTACTGCTGTTACCTGGTATCAACAGAAACCAGGGCAGTCTC +3: N V R T A V T W Y Q Q K P G Q S P DNA: CTCAAGCACTGATTTTCTTGGCATCCAACCGGCACACTGGTGTCCCTGCTC +3: Q A L I F L A S N R H T G V P A R 25 DNA: GATTCACAGGCAGTGGATCTGGGACAGATTTCACTCTCACCATTAACAATG FTGSGSGTDFTLTINNV DNA: TGAAATCTGAAGACCTGGCAGATTATTCTGTCTACAACATTGGAATTATC 30 K S E D L A D Y F C L Q H W N Y P DNA: CTCTCACGTTCGGCTCGGGGACAAAGTTGGAAATAAAACGGGCTGATGCTG +3: L T F G S G T K L E I K R A D A A 35 DNA: CACCAACTGTATCCATCTTCCCACCATCCAGTGAGCAGTTAACATCTGGAG +3: PTVSIFPPSSEQLTSGG DNA: GTGCCTCAGTCGTGTGCTTCTTGAACAACTTCTACCCCAAAGACATCAATG A S V V C F L N N F Y P K D I N V 40 DNA: TCAAGTGGAAGATTGATGGCAGTGAACGACAAAATGGCGTCCTGAACAGTT +3: K W K I D G S E R Q N G V L N S W BclI DNA: GGACTGATCAGGACAGCAAAGACAGCACCTACAGCATGAGCAGCACCCTCA 45 TDQDSKDSTYSMSSTLT DNA: CGTTGACCAAGGACGAGTATGAACGACATAACAGCTATACCTGTGAGGCCA LTKDÉYERHNSYTCEAT C<sub>L</sub>(x) primer 50 DNA: CTCACAAGACATCAACTTCACCCATTGTCAAGAGCTTCAACAGGGGAGAGT +3: H K T S T S P I V K S F N R G E Stop XbaI NotI KpnI DNA: GTTAGTAATCTAGAGTTAAGCGGCCGCAATCGAGGGGGGCCCGGTACCCC \* \* SRVKRPQSRGGPVPQ 55 DNA: AATTCGCCCTATAGGGGNGCCGTATTACAATTCACTGGGCGGCGGTTTTCA FAL\*GXRITIHWAAVFX +3: DNA: AN 60 +3:

Figure 2

A) LAXRGGGRKIXFXRETVIMKYLXAYGPAAGLLLLAAQPAMAQVKLLESGP GLVAPSESLSITCTISGFSLTDDGVSWIRQPPGKGLEWLGVIWGGGSTYF NSLFKSRLSITRDNSKSQVFLEMDSLQTDDTAMYYCAKHDGHETMDYWGQ 5 GTSVTVSSSKTTPPSVYPLAPGSAAQTNSMVTLGCLVKGYFPEPVTVTWN SGSLSSGVHTFPAVLQSDLYTLSSSVTVPSSTWPSETVTCNVAHPASSTK VDKKIVPRDCTSHHHHHH+\*ASLVVAVALHSFVXIKANRRPAX B) DNA: TTGGCCNCCCGCGGTGGCGGCCGCAAAATTNTATTTNCAAGGGAGACAGTC 10 -1: L A X R G G G R K I X F X R E T V DNA: ATAATGAAATACCTTTTNGCCTACGGGCCAGCCGCTGGATTGTTATTACTC -1: I M K Y L X A Y G P A A G L L L L pComb3 vector XhoI V<sub>B</sub>b primer 15 DNA: GCTGCCCAACCAGCCATGGCCCAGGTGAAACTGCTCGAGTCAGGACCTGGC -1: A A Q P A M A Q V K L L E S DNA: CTGGTGGCGCCCTCAGAGAGCCTGTCCATCACATGCACTATCTCAGGGTTC -1: L V A P S E S L S I T C T I S G F 20 DNA: TCATTAACCGACGATGGTGTAAGCTGGATTCGGCAGCCTCCAGGAAAGGGT -1: S L T D D G V S W I R Q P P G K G DNA: CTGGAGTGGCTGGGAGTAATATGGGGTGGTGGAAGCACATACTTTAATTCA 25 -1: L E W L G V I W G G G S T Y F N S DNA: CTTTTCAAATCCAGACTGAGCATCACCAGGGACAACTCTAAGAGCCAAGTT -1: L F K S R L S I T R D N S K S Q V 30 DNA: TTCTTAGAAATGGACAGTCTACAAACTGATGACAGCCATGTACTACTGC -1: F L E M D S L Q T D D T A M Y Y C DNA: GCCAAACATGACGGACACGAGACTATGGACTATTGGGGTCAAGGAACCTCA -1: A K H D G H E T M D Y W G Q G T S 35 DNA: GTCACCGTCTCCTCATCCAAAACGACACCCCCATCTGTCTATCCACTGGCC -1: V T V S S S K T T P P S V Y P L A DNA: CCTGGATCTGCCCCAAACTAACTCCATGGTGACCCTGGGATGCCTGGTC 40 -1: P G S A A Q T N S M V T L G C L V DNA: AAGGGCTATTTCCCTGAGCCAGTGACAGTGACCTGGAACTCTGGATCCCTG -1: K G Y F P E P V T V T W N S G S L 45 DNA: TCCAGCGGTGTGCACACCTTCCCAGCTGTCCTGCAGTCTGACCTCTACACT -1: S S G V H T F P A V L Q S D L Y T DNA: CTGAGCAGCTCAGTGACTGTCCCCTCCAGCACCTGGCCCAGCGAGACCGTC -1: L S S S V T V P S S T W P S E T V 50 DNA: ACCTGCAACGTTGCCCACCCGGCCAGCACCAAGGTGGACAAGAAAATT -1: T C N V A H P A S S T K V D K K T CH1(Y1)Primer SpeI His tag Stop DNA: GTGCCCAGGGATTGTACTAGTCATCATCATCATCATTAAGCTAGCCTA 55 -1: V P R D C T S H H H H H H \* A S L DNA: GTGGTGGCGGTGGCTCTCCATTCGTTTGTGANGATAAAGGCCAATCGNAGA -1: V V A V A L H S F V X I K A N R R 60 DNA: CCTGCNCNA -1: P A X

Figure 3

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	A)
	ATNCTTTNTTGTTCCTTTCTATGCGGCCCAGCCGGCCATGGCCCAGGTCCAGCTG
	CAGGAGTCAGGAACTGAAGTGGTAAAGCCTGGGGCTTCAGTGAAGTTGTCCT
	GCAAGGCTTCTGGCTACATCTTCACAAGTTATGATATAGACTGGGTGAGGCAG
5	ACGCCTGA ACAGGGACTTGAGTGGATTGGATGGATTTTTCCTGGAGAGGGGA
	<u>GTACTGAATACAATGAGAAGTTCAAGGGCAGGGCCACACTGAGTGTAGACAA</u>
	GTCCTCCA GCACAGCCTATATGGAGCTCACTAGGCTGACATCTGAGGACTCTG
	<u>CTGTCTATTTCTGTGCTAGAGGGGACTACTATAGGCGCTACTTTGACTTGTGGG</u>
	<u>GCCAA</u> GGGACCACGGTCACCGTCTCCTCATGTGGAGGCGGTTCAGGCGGAGG
10	TGGCTCTGGCGGTGGCGGATCTGACATTGAGCTCACCCAGTCTCCAGCAATCA
	TGTCTGCATCTCCAGGGGAGAGGGTCACCATGACCTGCAGTGCCAGCTC
	AAGTATACGTTACATATTTGGTACCAACAGAAGCCTGGATCCTCCCCCA
	GACTCCTGATTTATGACACATCCAACGTGGCTCCTGGAGTCCCTTTTCGC
	TTCAGTGGCAGTGGGTCTGGGACCTCTTATTCTCTCACAATCAACCGAAT
15	GGAGGCTGAGGATGCTGCCACTTATTACTGCCAGGAGTGGAGTGGTTAT
	CCTCTCACGTTCGGCTCGGGCACCAAGCGGGAAATCAAACGG <u>GCGGCCGC</u>
	AGGTGCGCCGGTATCCGGATCCGCTGGAACCGCGTGCCGCATAGACT-
	GTTGAA

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B)

MAQVQLQES GTEVVKPGASVKLSCKASGYIFTSYDIDWVRQTPEQGLEWIG WIFPGEGST EYNEKFKGRATLSVDKSSSTAYMELTRLTSEDSAVYFCARG DYYRRYFDLWGQGTTVTVSSGGGGSGGGGGGGGGGGDIELTQSPAIMSASP GERVTMTCS ASSSIRYIYWYQQKPGSSPRLLIYDTSNVAPGVPFRFSGSG SGTSYSLTI NRMEAEDAATYYCQEWSGYPLTFGSGTKREIKRAAAGAPVP YPDPLEPR

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A)

tcgctgcccaaccagcc ATG gcccaggtgaaactgctcgagtcaggacctggcctggtgg5 cgccctcagagagcctgtccatcacatgcactatctcagggttctcattaaccgacgatg gtgtaagctggattcggcagcctccaggaaagggtctggagtggctgggagtaatatggg gtggtggaagcacatactttaattcacttttcaaatccagactgagcatcaccagggaca actetaagageeaagttttettagaaatggaeagtetacaaactgatgaeacageeatgt actactgcgccaaacatgacggacacgagactatggactattggggtcaaggaacctcag 10 tcaccgtctcctcatccaaaacgacacccccatctgtctatccactggcccctggatctg ctgcccaaactaactccatggtgaccctgggatgcctggtcaagggctatttccctgagc cagtgacagtgacctggaactctggatccctgtccagcggtgtgcacaccttcccagctg tcctgcagtctgacctctacactctgagcagctcagtgactgtcccctccagcacctggc ccagcgagaccgtcacctgcaacgttgcccacccggccagcagcaccaaggtggacaaga 15 aaattgtgcccagggattgtactagtgqtgqcqqaqqtaqtqqcqqaqqtaqcqqtq <u>gcgqaqgttctqqtqqcqqaqqttcc</u>gaattcctcqaggtgcccatccaaaaagtccaag atgacaccaaaaccctcatcaagacaattgtcaccaggatcaatgacatttcacacacgc agtcagtctcctccaaacagaaagtcaccggtttggacttcattcctgggctccaccca tcctgaccttatccaagatggaccagacactggcagtctaccaacagatcctcaccagta 20 tgccttccagaaacgtgatccaaatatccaacgacctggagaacctccgggatcttcttc acgtgctggccttctctaagagctgccacttgccctgggccagtggcctggagaccttgg acagcctgggggtgtcctggaagcttcaggctactccacagaggtggtggccctgagca ggctgcaggggtctctgcaggacatgctgtggcagctggacctcagccctgggtgcacta gtcatcatcatcatcatcatTAAgctagcctagtggtggctggctctcca

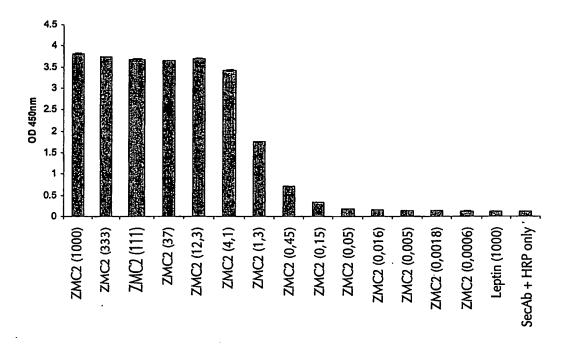
25 B)

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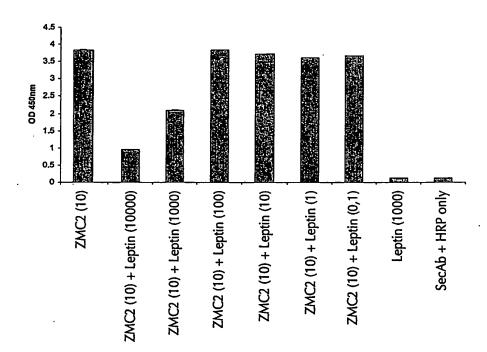


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Figure 6

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Figure 7

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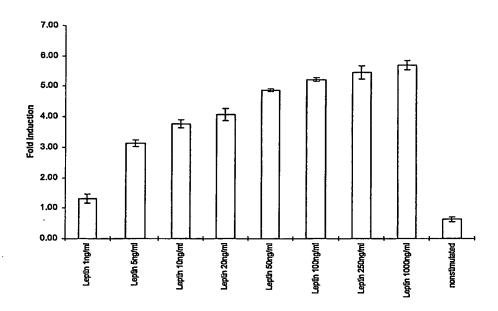


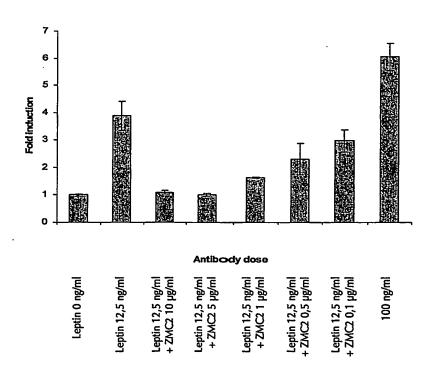
Figure 8

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Figure 9

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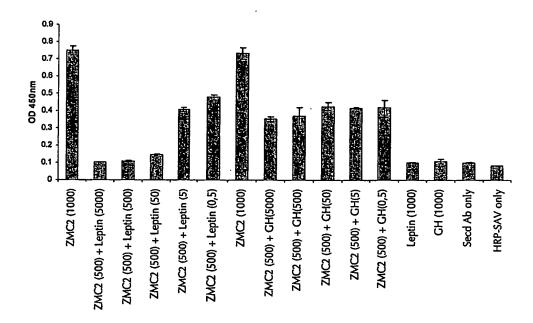


Figure 10

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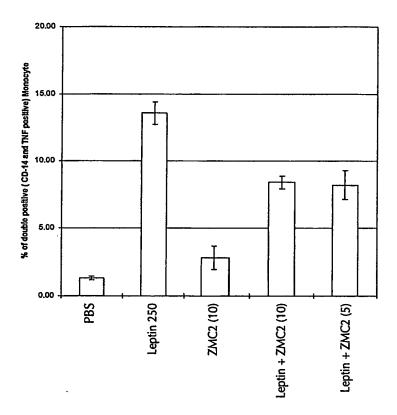
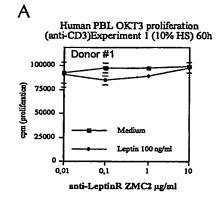
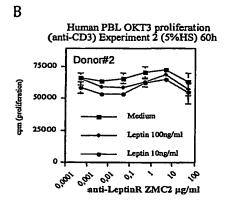


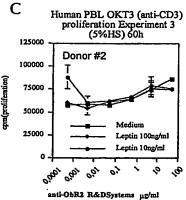
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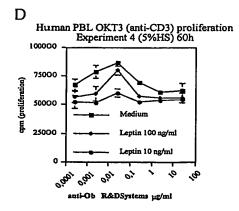
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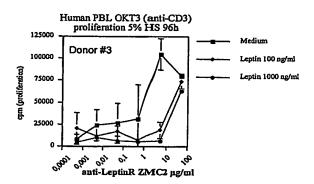
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Figure 12

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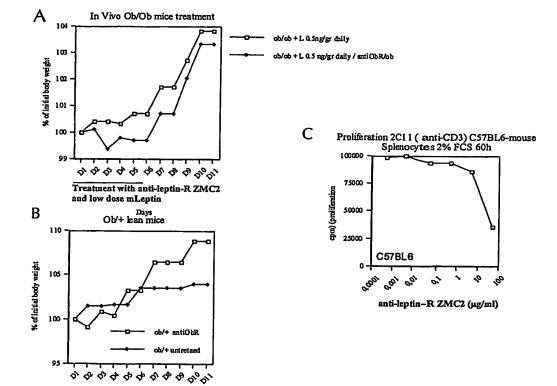


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Figure 13

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Treatment with anti-leptin-R ZMC2
Days

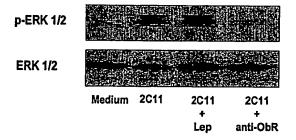
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Figure 14

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Figure 15

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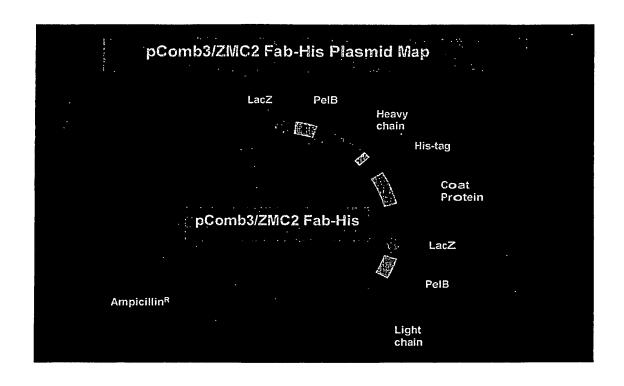


Figure 16

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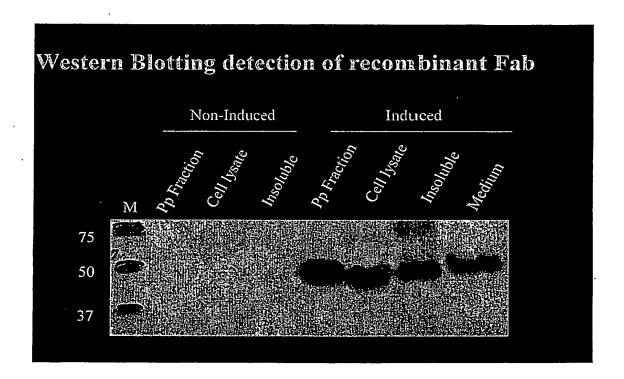


Figure 17

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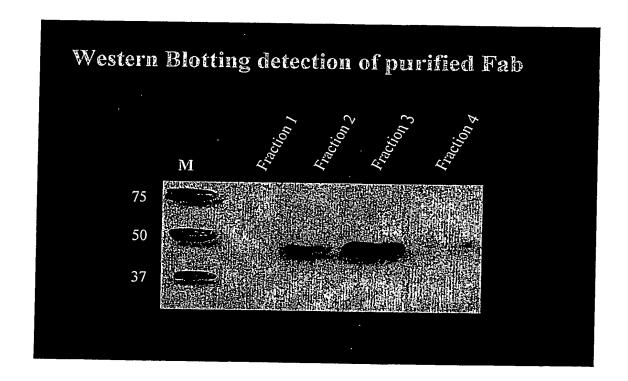


Figure 18

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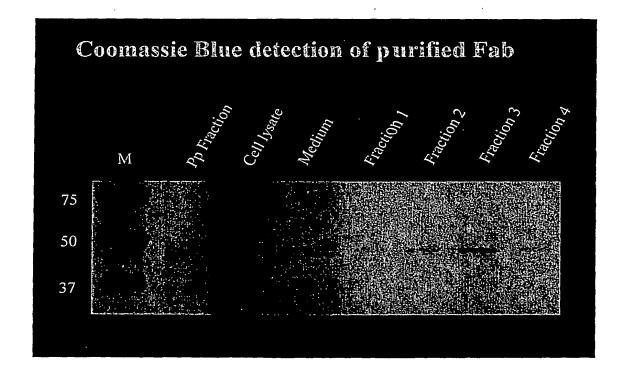
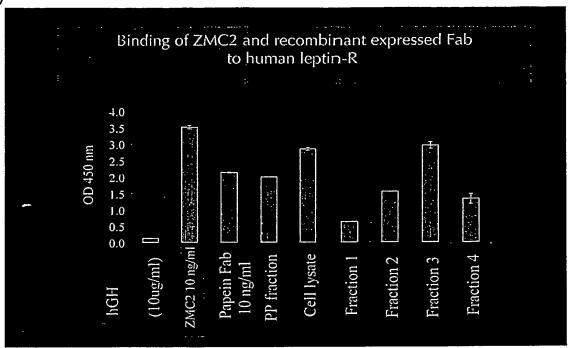


Figure 19

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B)

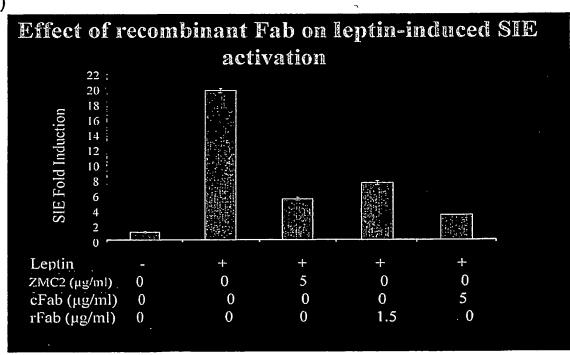


Figure 20

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